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By: Susan M. Foley

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PATENT

Attorney Docket No. 14538A-005810US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

RONALD H. REEDER, et al.

Application No.: 09/932,678

Filed: August 16, 2001

For: HUMAN RRN3 AND
COMPOSITIONS AND METHODS
RELATING THERETO

Examiner: Unassigned

Art Unit: 1645

**INFORMATION DISCLOSURE
STATEMENT**

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Applicants direct the Examiner's attention to the references below, also listed on the accompanying Form PTO-1449. A copy of each is also enclosed.

The following articles are set forth by the indicated year of publication date:

AA. Kunkel, "Rapid and Efficient Site-Specific Mutagenesis Without Phenotypic Selection," *Proc. Natl. Acad. Sci. USA*, 82:488-92 (January, 1985).

AB. Grussenmeyer et al., "Complexes of Polyoma Virus Medium T Antigen and Cellular Proteins," *Proc. Natl. Acad. Sci. USA*, 82:7952-54 (December, 1985).

AC. Bell et al., "Functional Cooperativity Between Transcription Factors UBF1 and SL1 Mediates Human Ribosomal RNA Synthesis," *Science*, 241:1192-97 (September 2, 1988).

AD. Schnapp et al., "A Growth-Dependent Transcription Initiation Factor (TIF-IA) Interacting with RNA Polymerase I Regulates Mouse Ribosomal RNA Synthesis," *EMBO J.*, 9:2857-63 (1990).

AE. Nogi et al., "An Approach for Isolation of Mutants Defective in 35S Ribosomal RNA Synthesis in *Saccharomyces Cerevisiae*," *Proc. Natl. Acad. Sci. USA*, 88:7026-30 (August, 1991).

AF. Schnapp and Grummt, "Transcription Complex Formation at the Mouse rDNA Promoter Involves the Stepwise Association of Four Transcription Factors and RNA Polymerase I," *J. Biol. Chem.*, 266:24588-95 (December 25, 1991).

AG. Comai et al., "The TATA-Binding Protein and Associated Factors Are Integral Components of the RNA Polymerase I Transcription Factor, SL1," *Cell*, 68:965-76 (March 6, 1992).

AH. Eberhard et al., "A TBP-Containing Multiprotein Complex (TIF-IB) Mediates Transcription Specificity of Murine RNA Polymerase I," *Nucleic Acids Res.*, 21:4180-86 (August 2, 1993).

AI. Schnapp et al., "Function of the Growth-Regulated Transcription Initiation Factor TIF-IA in Initiation Complex Formation at the Murine Ribosomal Gene Promoter," *Mol. Cell. Biol.*, 13:6723-32 (1993).

AJ. Keys et al., "RRN6 and RRN7 Encode Subunits of a Multiprotein Complex Essential for the Initiation of rDNA Transcription by RNA Polymerase I in *Saccharomyces Cerevisiae*," *Genes Dev.*, 8:2349-62 (1994).

AK. Schnapp et al., "TIF-IC, a Factor Involved in Both Transcription Initiation and Elongation of RNA Polymerase I," *EMBO J.*, 13:4028-35 (1994).

AL. Keys et al., "Multiprotein Transcription Factor UAF Interacts with the Upstream Element of the Yeast RNA Polymerase I Promoter and Forms a Stable Preinitiation Complex," *Genes Dev.*, 10:887-903 (February 27, 1996).

AM. Lalo et al., "RRN11 Encodes the Third Subunit of the Complex Containing Rm6p and Rm7p That Is Essential for the Initiation of rDNA Transcription by Yeast RNA Polymerase I," *J. Biol. Chem.*, 271:21062-67 (August 30, 1996).

AN. Lin et al., "A Novel 66-Kilodalton Protein Complexes with Rm6, Rm7, and TATA-Binding Protein To Promote Polymerase I Transcription Initiation in *Saccharomyces Cerevisiae*," *Mol. Cell. Biol.*, 16:6436-43 (November, 1996).

AO. Steffan et al., "The Role of TBP in rDNA Transcription by RNA Polymerase I in *Saccharomyces Cerevisiae*: TBP is required for Upstream Activation Factor-Dependent Recruitment of Core Factor," *Genes Dev.*, 10:2551-63 (1996).

AP. Yamamoto et al., "RRN3 Gene of *Saccharomyces Cerevisiae* Encodes an Essential RNA Polymerase I Transcription Factor Which Interacts with the Polymerase Independently of DNA Template," *EMBO J.*, 15:3964-73 (1996).

AQ. Heix et al., "Cloning of Murine RNA Polymerase I-Specific TAF Factors: Conserved Interactions Between the Subunits of the Species-Specific Transcription Initiation Factor TIF-IB/SL1," *Proc. Natl. Acad. Sci. USA*, 94:1733-38 (March, 1997).

AR. Keener et al., "Reconstitution of Yeast RNA Polymerase I Transcription *in Vitro* from Purified Components," *J. Biol. Chem.*, 273:33795-802 (December 11, 1998).

AS. Milkereit and Tschochner, "A Specialized Form of RNA Polymerase I, Essential for Initiation and Growth-Dependent Regulation of rRNA Synthesis, is Disrupted During Transcription," *EMBO J.*, 17:3692-703 (1998).

AT. Steffan et al., "Interaction of TATA-Binding Protein with Upstream Activation Factor Is Required for Activated Transcription of Ribosomal DNA by RNA Polymerase I in *Saccharomyces Cerevisiae* In Vivo," *Mol. Cell. Biol.*, 18:3752-61 (July, 1998).

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Applicants believe that their invention as claimed is patentable over the above references taken alone or in any combination. However, Applicants reserve the right to demonstrate that their claimed invention was made prior to any one or more of the above-identified references. No inference should be drawn as to the pertinence of the references based on the order in which they are presented.

Applicants respectfully request that the Examiner review the foregoing references to make his own determination of the patentability of the present invention and that the references be made of record in the file of this application.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted deposit Account.

Respectfully submitted,

Dated: 16 January 2002

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